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(FILE 'HOME' ENTERED AT 10:33:06 ON 26 OCT 2000)

FILE 'HCAPLUS' ENTERED AT 10:33:27 ON 26 OCT 2000
L1 41 S SEUL M?/AU
L2 88 S EBRIGHT R?/AU
L3 1 S L1 AND L2
SELECT RN L3 1

FILE 'REGISTRY' ENTERED AT 10:33:58 ON 26 OCT 2000
L4 17 S E1-17

FILE 'HCAPLUS' ENTERED AT 10:34:06 ON 26 OCT 2000
L5 1 S L3 AND L4

Inventor Search

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L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2000 ACS
AN 1998:790694 HCAPLUS
DN 130:34764
TI Color-encoding and in-situ interrogation of matrix-coupled chemical compounds
IN **Seul, Michael; Ebright, Richard H.**
PA Bioarray Solutions LLC, USA; Rutgers, the State University of New Jersey
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 9853093 | A1 | 19981126 | WO 1998-US10719 | 19980522 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| AU 9875996 | A1 | 19981211 | AU 1998-75996 | 19980522 |
| EP 1003904 | A1 | 20000531 | EP 1998-923786 | 19980522 |
| R: BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | |

PRAI US 1997-47472 19970523
WO 1998-US10719 19980522

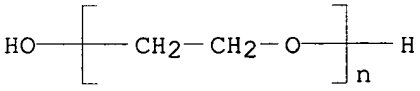
AB A method and app. for the physico-chem. encoding of a collection of beaded resin ("beads") to det. the chem. identity of bead-anchored compds. by in-situ interrogation of individual beads. The present invention provides method and app. to implement color-coding strategies in applications and including the ultrahigh-throughput screening of bead-based combinatorial compds. libraries as well as multiplexed diagnostic and environmental testing and other biochem. assays. A method is described for identifying a compd. having a selected property of interest in a library of compds., each of said compds. being bound to its resp. solid support, and being produced by a unique reaction series composed of 1 to about 100 steps, wherein each compd. is prepd. from a component. The component may be an amino acid, a hydroxy acid, an oligoamino acid, an oligopeptide, a saccharide, an oligosaccharide, or a protein. Examples of the protein component include enkephalin, vasopressin, oxytocin, atrial natriuretic factor, bombesin, calcitonin, parathyroid hormone, neuropeptide Y and endorphin. An example of the solid support include color-encoded PEG-polystyrene microspheres.

IT **144114-21-6**, HIV proteinase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HIV protease inhibitor in selection matrix; color-encoding and in-situ interrogation of matrix-coupled chem. compds.)
RN 144114-21-6 HCAPLUS

CN Retropepsin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

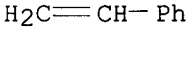
IT **25322-68-3**, Peg
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(PEG-polystyrene microspheres as solid support for identification of biomols.; Color-encoding and in-situ interrogation of matrix-coupled chem. compds.)
RN 25322-68-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)



IT **9003-53-6**, Polystyrene
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(PEG-polystyrene microspheres as solid support for identification of biomols.; color-encoding and in-situ interrogation of matrix-coupled chem. compds.)
RN 9003-53-6 HCAPLUS
CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5
CMF C8 H8



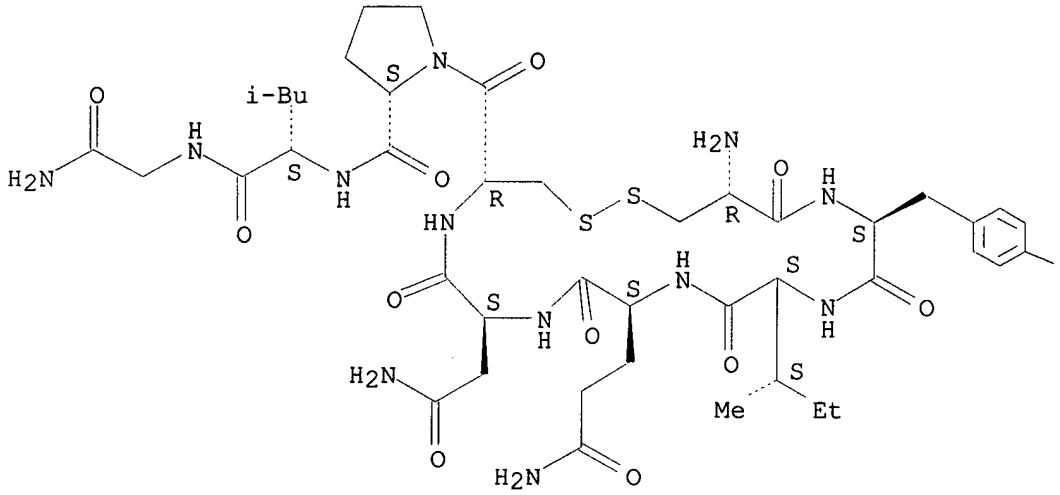
IT **9015-82-1**, Angiotensin-converting enzyme
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(angiotensin-converting enzyme inhibitor in selection matrix; color-encoding and in-situ interrogation of matrix-coupled chem. compds.)
RN 9015-82-1 HCAPLUS
CN Carboxypeptidase, dipeptidyl (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **50-56-6**, Oxytocin, biological studies **9002-64-6**, Parathyroid hormone **9007-12-9**, Calcitonin **11000-17-2**, Vasopressin **60118-07-2**, Endorphin **80043-53-4**, Gastrin-releasing peptide **82785-45-3**, Neuropeptide y **85637-73-6**, Atrial natriuretic factor
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(in selection matrix; color-encoding and in-situ interrogation of matrix-coupled chem. compds.)
RN 50-56-6 HCAPLUS
CN Oxytocin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

OH

RN 9002-64-6 HCAPLUS
CN Parathormone (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 9007-12-9 HCAPLUS
CN Calcitonin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 11000-17-2 HCAPLUS
CN Vasopressin (7CI, 8CI, 9CI) (CA INDEX NAME)

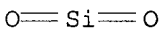
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 60118-07-2 HCAPLUS
CN Endorphin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 80043-53-4 HCAPLUS
CN Gastrin-releasing peptide (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 82785-45-3 HCAPLUS
CN Neuropeptide Y (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 85637-73-6 HCAPLUS
CN Atrial natriuretic peptide (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT **7631-86-9**, Silica, biological studies **9002-88-4**,
Polyethylene **9003-01-4**, Polyacrylic acid **9003-05-8**,
Polyacrylamide **9004-34-6**, Cellulose, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(solid support for identification of biomols.; color-encoding and
in-situ interrogation of matrix-coupled chem. compds.)
RN 7631-86-9 HCAPLUS
CN Silica (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 9002-88-4 HCAPLUS
CN Ethene, homopolymer (9CI) (CA INDEX NAME)

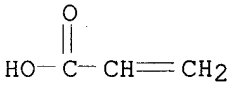
CM 1

CRN 74-85-1
CMF C2 H4

RN 9003-01-4 HCAPLUS
CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

CM 1

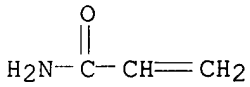
CRN 79-10-7
CMF C3 H4 O2



RN 9003-05-8 HCAPLUS
CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1
CMF C3 H5 N O



RN 9004-34-6 HCAPLUS
CN Cellulose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RE.CNT 5
RE
(1) Affymax Technologies NV; WO 93/06121 A1 1993 HCAPLUS
(2) Cargill; US 5770455 A 1998
(3) Gordon; J Med Chem 1994, V37(10), P1385 HCAPLUS
(4) Nielsen; Tetrahedron Letters 1997, V38(11), P2011 HCAPLUS
(5) Still; US 5565324 A 1996 HCAPLUS